Title (en)

HYDRAULICALLY DAMPED MOUNTING DEVICE

Publication

EP 0262544 B1 19891025 (EN)

Application

EP 87113768 A 19840124

Priority

- GB 8301964 A 19830125
- GB 8313111 A 19830512

Abstract (en)

[origin: EP0262544A2] A hydraulically damped mounting device has two anchor points (2,3) joined by a resilient spring (9). The resilient spring (9) and a partition (6) define a working chamber (13) for liquid, the working chamber being in communication with a compensation chamber (14) via a passage (15). The compensation chamber (14) is bounded by flexible bellows (5). A flexible diaphragm (16) defines, together with the partition (6), a gas pocket (18). Relative movement of the anchor points (2,3) causes a change in pressure in the working chamber (13). High frequency vibrations are absorbed by movement of the diaphragm (16) with little resistance to movement. Low frequency vibrations cause liquid movement through the passage (15) with a strong damping effect. This affect may be controlled by suitable selection of the length and diameter of the passage (15). A bleed orifice (38) extends from the gas pocket (18) and has a valve (39) which controls gas movement through the orifice (38). This valve (39) is controlled in dependence on a frequency signal from e.g. the engine of a vehicle.

IPC 1-7

B60K 5/12; F16F 13/00

IPC 8 full level

F16F 13/10 (2006.01); **F16F 13/20** (2006.01); **F16F 13/26** (2006.01)

CPC (source: EP)

F16F 13/10 (2013.01); **F16F 13/20** (2013.01); **F16F 13/26** (2013.01)

Cited by

DE10042968B4; EP0984193A1; FR2782764A1; EP0555736A1; EP1443240A1; US2016053846A1; US9719576B2; DE102016103500A1; DE102005041583B4; EP0595591A1; TR28189A; US5246212A; FR2694354A1; EP2103837A1; EP0754878A1; US5839720A; DE4435431B4; DE4325730A1; DE4325730C2; EP0357245A1; US4997169A; US9726251B2; US6199842B1; US7878489B2; US8702074B2

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